Thermochimica Acta, 215 (1993) v–vi
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

(*Abstracted/Indexed in: Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL/CNRS*)

Publisher's Note vii

REGULAR PAPERS

Thermodynamics and Calorimetry

Thermal behavior of Landolt reactions in comparatively dilute aqueous solutions followed by heat exchange calorimetry of batch type
J. Kawahito and S. Fujieda (Tokyo, Japan) 1

Thermokinetics in conduction calorimetry: method of determination of the lower limits in dynamic heat power resolution
E. Margas and W. Zielenkiewicz (Warsaw, Poland) 9

Thermokinetics in conduction calorimetry: the lower limits in dynamic heat-power resolution
E. Margas (Warsaw, Poland), V. Torra (Barcelona, Spain) and W. Zielenkiewicz (Warsaw, Poland) 15

Types of curves for the temperature dependence of the heat capacity of pure liquids
M. Zábranský, M. Bureš and V. Růžička, Jr. (Prague, Czech Republic) 25

Thermal Analysis

The thermal decomposition of oxalates. Part 26. A kinetic study of the thermal decomposition of manganese(II) oxalate dihydrate
X. Gao and D. Dollimore (Toledo, OH, USA) 47

The application of non-isothermal methods of kinetic analysis to the decomposition of calcium hydroxide
D. Chen, X. Gao and D. Dollimore (Toledo, OH, USA) 65

The effect of the reaction heat on kinetic analysis by TG under a rising temperature program. Part 1
X. Gao, D. Chen and D. Dollimore (Toledo, OH, USA) 83

The effect of the reaction heat on kinetic analysis by TG under a rising temperature program. Part 2
X. Gao, D. Chen and D. Dollimore (Toledo, OH, USA) 97

A generalized form of the Kissinger equation
D. Chen, X. Gao and D. Dollimore (Toledo, OH, USA) 109

The importance of the pre-history of a sample on its thermal behavior. Part 1
D. Chen, X. Gao and D. Dollimore (Toledo, OH, USA) 119

The importance of the pre-history of a sample on its thermal behavior. Part 2
D. Chen, X. Gao and D. Dollimore (Toledo, OH, USA) 133

The influence of ferric oxide on the properties of $3CaO \cdot 3Al_2O_3 \cdot SrSO_4$
D. Chen (Toledo, OH, USA), X. Feng and S. Long (Hubei, People's Republic of China) .. 143

The influence of ferric oxide on the properties of $3CaO \cdot 3Al_2O_3 \cdot CaSO_4$
D. Chen (Toledo, OH, USA), X. Feng and S. Long (Hubei, People's Republic of China) .. 157

The determination of cholesterol, calcium carbonate and calcium oxalate in gallstones by thermogravimetry
K.S. Alexander, D. Dollimore, J.G. Dunn, X. Gao and D. Patel (Toledo, OH, USA) 171

Thermal stability and solubility of alkaline earth nitrates and chromates in nitrate melts
H.M.A. Abood and D.H. Kerridge (Southampton, UK) 183

Thermal decomposition kinetics of Co^{2+} and Ni^{2+} complexes with 3-hydroxypyridine in a dynamic nitrogen atmosphere
K.H. Halawani (Makkah Al-Mukaramah, Saudi Arabia) 189

Non-isothermal crystallization kinetics of *n*-paraffins: comparison of even-numbered and odd-numbered normal alkanes
A. Hammami and A.K. Mehrotra (Calgary, Alberta, Canada) 197
Avrami equation and nonisothermal crystallization of polyethylene investigated by DSC
J. Rychlý and I. Janigová (Bratislava, Slovak Republic) 211
Rock-salt defect structures in the systems LiBr–MBr_2 (where M is Mg, Mn)
M. Schneider, P. Kuske and H.D. Lutz (Siegen, Germany) 219
Low temperature thermal behaviour of lipopolysaccharides from *Brucella* and other Gram-negative bacteria
M.C. Ramos-Sánchez, A. Orduña-Domingo, A. Rodríguez-Torres, F.J. Martín-Gil and J. Martín-Gil (Valladolid, Spain) 227
Thermal behaviour of some new organotellurium compounds containing an *ortho*-acetamido group
A.Z. Al-Rubaie, N.I. Al-Salim and S.A.A. Al-Jadaan (Basrah, Iraq) 235
Thermal decomposition of guanidinium hexafluoroferrate(III)
T. Marčac Grahek and P. Bukovec 241
A Fourier transform infrared study of the oxidation of pyrite. The influences of experimental variables
J.G. Dunn, W. Gong and D. Shi (Perth, W. Australia, Australia) 247
Thermal decomposition of hydrated borates. Part 1. Thermal decomposition of pandermite $Ca_2B_5O_8(OH)_3 \cdot 2H_2O$
L. Stoch and I. Wacławska (Cracow, Poland) 255
Thermal decomposition of hydrated borates. Part 2. Thermal decomposition of kaliborite $HKMg_2B_{12}O_{16}(OH)_{10} \cdot 4H_2O$
L. Stoch and I. Wacławska (Cracow, Poland) 265
Thermal decomposition of hydrated borates. Part 3. Structural mechanism of thermal decomposition of borates
L. Stoch and I. Wacławska (Cracow, Poland) 273
Thermogravimetry (TG) applied to the analysis of Cabrales cheese
R. Moro García, M.L. Alvarez Bartolomé and A. Espina Alvarez (Oviedo, Spain) 281
Thermogravimetric study of the thermal stability of poly(vinyl chloride)/poly(vinyl acetate) blends
S.H. Goh (Singapore, Singapore) 291
Thermal studies on the phase transitions in sodium nitrite
J.E. House, Jr. and J.M. Goerne (Normal, IL, USA) 297
Thermal decomposition of tetrazole-containing polymers. Part 3. Thermolysis of poly-1-vinyltetrazole
A.I. Lesnikovich, S.V. Levchik, O.A. Ivashkevich, E.E. Bolvanovich, P.N. Gaponik (Minsk, Belarus), B.L. Korsunskii, S.V. Kurmaz, T.S. Larikova, V.V. Nedelko and V.P. Roshchupkin (Chernogolovka, Russian Federation) 303
Extrapolation kinetic problems solved by undiscriminating methods
S.V. Vyazovkin, G.F. Levchik, V.I. Goryachko, A.I. Vyazovkina and A.I. Lesnikovich (Minsk, Belarus) 315
Thermolysis kinetics of polypropylene on rapid heating
S. Vyazovkin, V. Goryachko, V. Bogdanova and V. Guslev (Minsk, Belarus) 325

Other Topics

The pyrolytic decomposition of metal alkoxides (di-acetoxy-di-*t*-butoxy-silane, DADBS) during chemical vapour deposition of thin oxide films
R. Hofman, J.G.F. Westheim, V.A.C. Haanappel, T. Fransen and P.J. Gellings (Enschede, The Netherlands) 329

Book Review 337

Author Index 339

Subject Index 341